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Approved For Release 2003/12/19: CIA-RDP78B05171A000800080015-8

NPIC/TSSG/DED-1592-69 2 2 APR 1969

MEMORANDUM FOR:	Director, National Photographic Interpretation Center
SUBJECT :	Proposed Contract with to Demon- strate the Utilization of the Graphics Terminal for an Advanced Graphics System

- 1. This memorandum requests approval for the commitment of funds for a contract. The specific request is stated in Paragraph 7.
- 2. Graphics are used extensively for providing information to the photo interpreter in assisting him to analyze imagery. Graphics are also used to clearly and conveniently convey the information in interpreted form to numerous users. However, line drawings, perspectives, etc. are time consuming and expensive to produce. They portray information about the object as seen from one view and they must be laboriously re-drawn to show another view. A graphics terminal recently marketed shows promise of producing graphics less expensively and offers more flexibility in communicating the graphic information.
- 3. There are numerous means of automating graphics production. One of the more advanced ways is to create an image on the screen of a cathode ray tube. With an appropriate system, the image thus created can be stored, recalled, manipulated and then printed out or recorded. It can be increased or decreased in size and it can have its shadow projected onto a reference plane. The latter procedure is particularly useful in identifying unidentified objects where the actual image is poor but the shadow of the object is clear on a photograph. While over a dozen Graphic Terminals have been photograph. While over a dozen sold to an impressive list of customers, each customer has his own particular problems that he is attempting to solve. Unfortunately, most of these problems are not common to NPIC. Therefore, the objective of the proposed contract is for to develop specific objective of the proposed contract is for programs and techniques to permit NPIC to demonstrate the potential of this system for solving specialized graphics problems peculiar to NPIC. Some contractual effort will also be devoted to examining possible applications of the system to display and edit textual information. This project will result in four or more demonstrations Graphics Terminal at that location. Permission at NSA using the to use this equipment has been obtained from NSA (see attached memo). The demonstration can be given on more than one day to accommodate the schedules of different observers. The programs and techniques used for the display will be well documented so that they can readily

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	be recalled and implemented again if NPIC procures a similar graphics system at a later date. A book containing photographs of the displayed images and textual procedures will also be furnished. A duplicate report will be furnished to NSA in exchange for the use of their equipment. The period of performance will be approximately 6 months.	
	4. An in-house study was initiated to examine the possibilities of automating graphics and reporting functions. Over twenty Government and industrial agencies were visited to obtain background information on graphics production.	
25X1	Graphics Terminal, produced byis the most flexible system for portraying three dimensional objects without the assistance of an inordinate amount of commutations.	25X1
	cessor. Another reason for selecting is that four Government agencies have purchased graphics equipment produced by and programs that they have developed may be of potential use to NPIC in the future. Two of these agencies are in the Washington, D.C. area.	25X1 25X1
25X1	as described in Paragraph 3. The approximate cost of this contract will be The use of NSA's facilities will be required to demonstrate the final results of this program own equipment will be used for all work prior to this demonstration. The use of NSA's facilities has been arranged as described in Paragraph 3 and as confirmed by the attached memo. No other Government furnished equipment will be supplied to the Contractor.	25X1
	5. The probability of success of this contract is very high. After evaluating the results of this contract, NPIC will assume a more advantageous position to determine whether the Graphics Terminal shows promise of future implementation	25X1
25X1	fully functional Graphics Terminal equipment would cost approximately depending on the optional equipment finally selected for the system.	
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	Chief, Tel	Chnical Services & Support Group,
		NPIC
Attachmer		
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2. Men	10 CM-0325/69 From CIA Sent	ior Representative, NSA to Ch/Signa
Pro	cessing, Dated 20 Mar 69	
	chnical Proposal, WA 904-1	From
APPROVED:		
	ARTHUR C. LUNDAHI	Date
	Director	
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